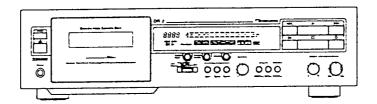


DR-2

Descrete Head Cassette Deck





CONTENTS

1.	Gener	ral	1
2.	Test T	Tapes and Gauges	2
3.		anism Ass'y and Parts List	3
	3.1.		3
	3.2.		4
	3.3.		5
	3.4.	Mechanism Ass'y (B02)	7
4.		ting Diagrams and Parts List	8
	4.1.	Bias Volume P.C.B. Ass'y	8
	4.2.	Input Volume P.C.B. Ass'y	
	4.3.	Timer Switch P.C.B. Ass'y	
	4.4.	Front P.C.B. Ass'y	8
	4.5.	Power Supply & Logic P.C.B. Ass'y	9
	4.6.		
5.	Schen	natic Diagrams	

1. GENERAL

Reference Service Manual

The base Model of DR-2 is Cassette Deck 1.5. In this Service Manual, identical sections/items are omitted. So, please refer to the Service Manual of Cassette Deck 1.5 (0Q06153A).

1.1. Product Code

A138

1.2. Destinations

USA, CAN, EP, UK, AUS, SAU, OTR, JPN

Abbreviation

USA — U.S.A. AUS — Australia
CAN — Canada SAU — Saudi Arabia
EP — Europe OTR — Other
UK — United JPN — Japan
· Kingdom

1.3. Cautions/Warnings

(1) Product Safety Notice

Parts marked with the symbol \angle !\text{\tin}\text{\tetx{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\texit{\text{\texi}\text{\texit{\texit{\text{\texit{\texit{\texi\tintt{\text{\texi}\text{\text{\texit{\texi{\texi{\texi{\texi{\tet

Use ONLY replacement parts recommended by the manufacturer. It is recommended that the unit be operated from a suitable DC supply or batteries during initial check-out procedures.

(2) Leakage Current Check/Resistance Check

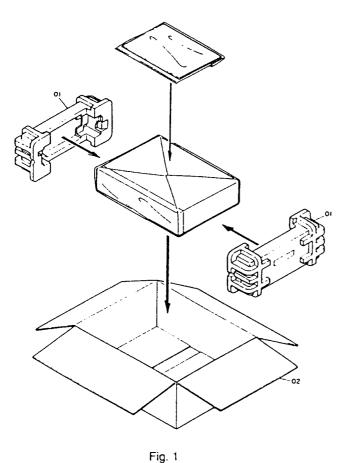
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamp, or if the resistance from chassis to either side of the power cord is less than 240 k ohms, the unit is defective.

WARNING — DO NOT return the unit to the customer until the problem is located and corrected.

1.4. Voltage Selector

The voltage selector is installed on the Rear Panel of the DR-2 (OTR & SAU). The voltage selector can select either 110-127V or 220-240V at customer's disposal.

1.5. Package Ass'y and Accessory Ass'y



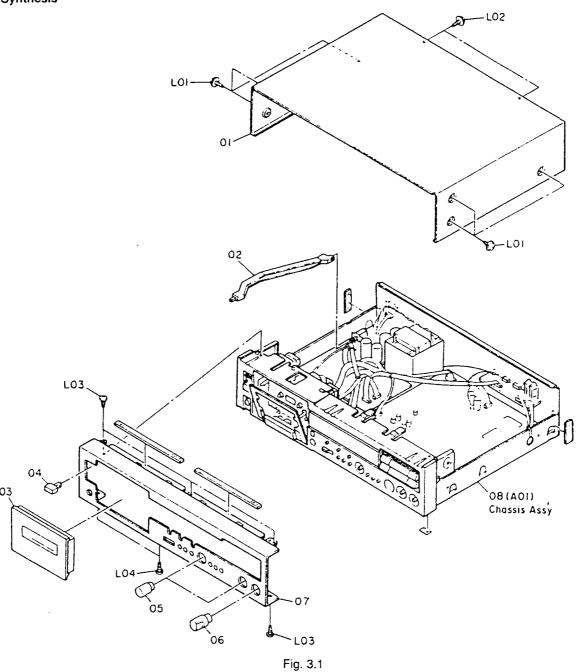
Schematic Ref. No.	Part No.	Description	Qту
-		Package Ass'y	
01	0F04728A	Packing	2
02	0F04717A	Carton Box	1
-	0F04458A	Soft Sheet	1
Schematic Ref. No.	Part No.	Description	Qty
	DAM695A	Accessory Ass'y (USA, CAN)	1
		Accessory Ass'y (EP)	•
		Accessory Ass'y (UK)	1
	DA04698A	* * * * * * * * * * * * * * * * * * * *	1
		Accessory Ass'y (JPN)	1
	0D06400B	Onwer's Manual (English)	1
	0D06416A	Owner's Manual (French) (USA, CAN, EP, UK)	1
	0D06417A		1
	0D06398A		1
	0D06431A		2

2. TEST TAPES AND GAUGES

- (1) 400 Hz Level Tape (DA09005C)
- (2) 1kHz Track Alignment Tape (DA09007C)
- (3) 10 kHz PB Frequency Response Tape (DA09003C)
- (4) 15 kHz PB Frequency Response Tape (DA09002C)
- (5) 20 kHz PB Frequency Response Tape (DA09001C)
- (6) 15 kHz Azimuth Tape (DA09004C)
- (7) 3 kHz Speed and Wow/Flutter Tape (DA09006D)
- (8) Tape Travelling Cassette (DA09071A)
- (9) Reference EXII Tape (DA09168A)
- (10) Reference SX Tape (DA09167A)
- (11) Reference ZX Tape (DA09166A)
- (12) EH Tilt Check Gauge S (DA09088A)
- (13) Stroke Check Gauge S (DA09090A)
- (14) Tape Guide Height Check Gauge S (DA09091A)
- (15) Tilt Check Gauge S (DA09039C)
- (16) Torque Gauge FWD (DA09082A)

3. MECHANISM ASS'Y AND PARTS LIST

3.1. Synthesis



3.1. Synthesis

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Q'ty
		Synthesis		L03 L04	0E00921A 0E03366A	BT3x8 + Binding (Black Chornate) BT3x8 + Binding Projected	
01	0H06423A	Top Cover	1			(Black Chromate)	
02	0J07037C	Power Switch Joint	1			,	
03	HA06578A	Cassette Case Cover Ass'y	1				
04	0H06418A	Power Knob	1				
05	HA06502A	Volume Knob Ass'y CDR	2				
06	HA06503A	Volume Knob Ass'y DR	1				
07	0H06456C	Front Panel	. 1				
80	-	Chassis Ass'y	1				
L01	0E03032A	BT4x8 + Pan Washer Faced (Black Chromate)					
L02	0E03632A	BT3x8 + Binding With Washer (Black Chromate)					

3.2. Chassis Ass'y (A01)

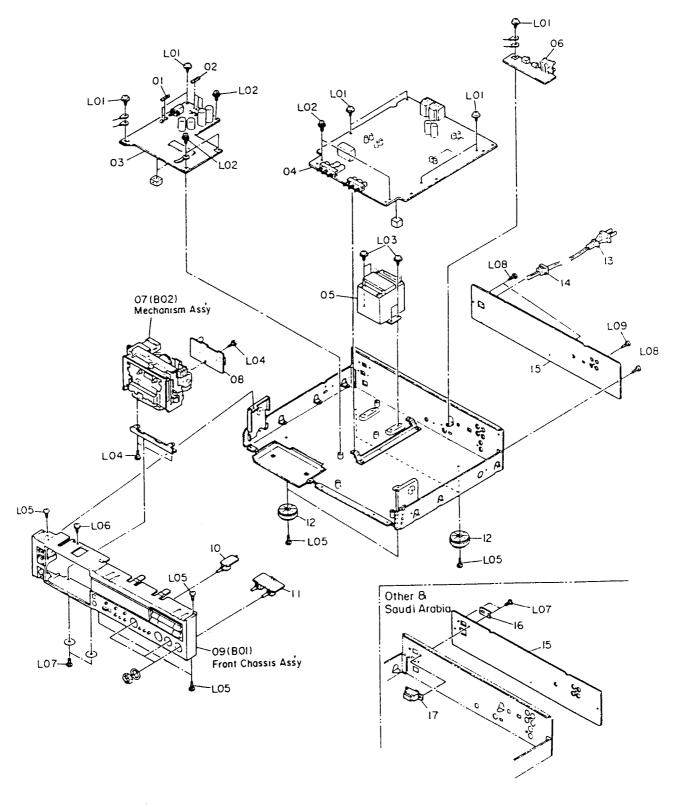


Fig. 3.2

3.3. Front Chassis Ass'y (B01)

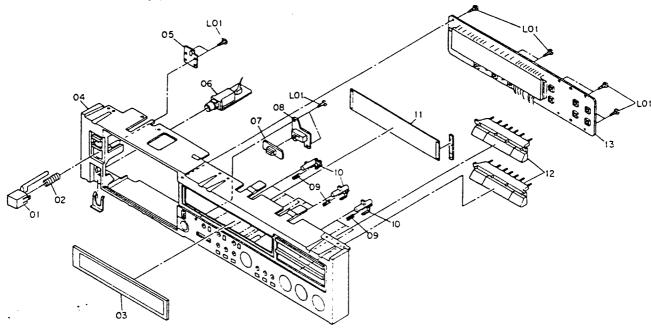


Fig. 3.3

3.2. Chassis Ass'y (A01)

Schematic Ref. No.	Part No.	Description	Q'ty	Schematic Ref. No.	Part No.	Description	Оту
A01		Chassis Ass'y	1	17 L01		Voltage Selector (OTR, SAU) BT3x8 + Binding With Washer	1
01	0B90493A	Fuse 500mA [F404] (USA, CAN, JPN)	1	L02 L03	0E00607A	M3x8 + Pan (3A) BT4x6 + Binding Washer Faced	
	0B08505A	Fuse F500mA [F404]	1	L03		(Black Chromate) M2.6x6 + Binding With Toothed Lock	
02	0B90375A	(EP. UK, AUS, OTR, SAU) Fuse 1.6A [F401-403]	3	L05		BT3x8 + Binding	
	0B90382A	(USA, CAN, JPN) Fuse T1.25A [F401-403]	3	L06		(Black Chromate) BT2.6x6 + Binding Toothed Lock	
03	BA08853A	(EP, UK, AUS, OTR, SAU) Power Supply & Logic P.C.B. Ass'y	1	L07 L08		M3x6 + Binding (Black Chromate) BT3x6 + Binding	
	BA08851A	(Except JPN) Power Supply & Logic P.C.B. Ass'y (JPN)	1	L09	0E03749A	(Black Chromate) PT3x8 + Binding (Black Chromate)	
04	BA08849A	Main P.C.B. Ass'y	1			(Black Ciliothate)	
05	0B50183A Power Transformer 120V (USA, CAN)		1	3.3. Front (Chassis Ass	'y (B01)	
	0B50182A	Power Transformer 230V (EP)	1	Schematic			
	0B50179A	Power Transformer 240V (UK, AUS)	1	Ref. No.	Part No.	Description	Oty
	0B50181A	Power Transformer 115-230V (OTR, SAU)	1	B 01	-	Front Chassis Ass'y	1
	0B50180A	Power Transformer 100V (JPN)	1	01	0H06432B	Eject Knob	1
06		Pin Jack P.C.B. Ass'y	1	02	0J07048B		1
07		Mechanism Ass'y	1	03	HA06566D	Display Lens Ass'y	1
08		Playback Amp. P.C.B. Ass'y	1	04		Front Chassis	1
09	_	Front Chassis Ass'y	1	05	0J07077A		1
10	BA08836A	Bias Volume P.C.B. Ass'y	1	06	BA07986A	Headphone P.C.B. Ass'y	1
11	BA08837A	Input Volume P.C.B. Ass'y	1	07	0H06436B	Slide Knob	1
12	0H06472A	Leo	4	08	BA08841A	Timer Switch P.C.B. Ass'y	1
13	0B90205A	Power Cord (USA, CAN)	1	09	0J06253A		9
	0B08093U	Power Cord (EP)	1	10	0H06447B	Push Knob	9
	0B08348A	Power Cord (UK)	1	11	HA06569C	Filter DR Ass'y	1
	0B05241A	Power Cord (AUS)	1	12	0H06426B	Control Knob 3CD	2
	0B08533A	Power Cord (OTR, SAU)	1	13	BA08855A	Front P.C.B. Ass'y	1
		Power Cord (JPN)	1	L01	0E00868A	BT3x8 + Binding	
14	0890280A	Cord Bushing (USA, CAN, EP, UK, AUS)	1				
	0B90283A	Cord Bushing (OTR, SAU, JAN)	1				
15		Rear Panel (USA, CAN, EP, UK, AUS, JPN)	1				
	0H06526A	Rear Panel (OTR, SAU)	1				
16		Voltage Lock Plate (OTR, SAU)	1				

3.4. Mechanism Ass'y (B02)

Schematic lef. No.	Part No.	Description	Qty	Schematic Ref. No.	Part No.	Description	
B02		Mechanism Ass'y	1	74	0C82698A	Take-up Flywheel	
		_		75		Capstan Belt	
01	0C85309A		1	76		Thrust Plate	
02		Eject Arm Spring	1	77		Floating Rubber	
03		Pneumatic Damper Ass'y	1	78 70		Capstan Motor Ass'y	
04		Eject Lever Spring	1	79		Flywheel Holder	
05		Eject Lever	1	80		Cam Gear B	
06		Cassette Case Holder L	1	81 82		Control Motor Holder Thrust Spring B	
07		Eject Spring	1	83		Mode Switch	
80		Back Tension Arm Pulley Back Tension Arm Belt	í	84		Warm Thrust Bush	
0 9 10		Back Tension Arm Spring	i	85		Control Motor Ass'y 30	
11		Back Tension Arm Collar	i	86		Mechanism GND Ass'y	
12		Back Tension Arm	1	87		5P Connector Ass'y	
13		Lock Lever Spring	1	88		9P Connector Ass'y	
14		Lock Lever Collar	1	L01		E-Ring 2.5mm	
15		Lock Lever	1	L02		E-Ring 3mm	
16		Supply Reel Hub Ass'y	1	L03	0E00222A	E-Ring 2mm	
17		Spring Holder	2	L04	0E00866A	M2.6x4 + Binding	
18	0C80614A	Supply Reel Hub Spring	1	L05	0E00912A	Washer FT25	
19	0C81421A	Supply Pressure Roller Arm	1	L06		CS Stopper 2.4mm	
		Adjustment Nut		L07		FT2.5x5 + Pan	
20	CA80366A	Supply Pressure Roller Arm Ass'y	1	L08		ST2.5x8 + Pan	
21	0C81420A	Supply Pressure Roller Arm Spring	1	L09	0E03202A	M2.6x3 + Binding	
22	0C81422A	Supply Pressure Roller Arm	1			(Black Chromate)	
		Track Spring		L10	0E03437A	FT2.5x3.5 + Pan	
23		Head Mount Cover	1			(Black Chromate)	
24		Cassette Case Ass'y	1	L11		M2x4 + Pan (3A)	
25	CA81949A	Cover Plate Ass'y	1	L12		Washer 1.3x3.4x0.5	
26	0C08762A	Cover Plate Ass'y Head Height Adjustment Gear Head Height Adjustment Screw Azimuth Alignment Screw	2	L13		M1.7x7 + Pan	
27	0C08761A	Head Height Adjustment Screw	4	L14		Washer 1.8x3.8x0.3	
28	0000,007	/ Emilian / mg/milen color	-	L15		M2x5 + Pan (2A)	
29	CA08637A	Head Mount Base Sub Ass'y	1	L16		M2x3 + Pan	
30	CA08659C	R-3L Record Head Ass'y	1	L17		FT3x4 + Pan	
31	0C08776A	Head Plate Spring L	1	L18		M2x5 + Pan (2A)	
32		RH 4P Connector Ass'y	1	L19		M2x30 + Pan	
33	0C80605A	Wire Clamper	1	L20		FT2.5x4 + Pan	
34	0C80610A	Cassette Case Spring	1	L21	0E03233A	Washer 2.6x8x1	
35	0C80010D	Cassette Case Holder R	1	L22	0E03230A	ST2.6x12 + Pan	
36		Sensor Switch	1	L23		M2.6x3 + Binding	
37	CA08658C	P2H-3L Playback Head Ass'y	1	L24		Washer 2.1x4.5x0.1	
38	0C08775A	Head Plate Spring R	1	L25		M2.6x9 Washer Faced	
39	CA81675A	PH 4P Connector Ass'y	1	L26		M2x3 + Pan	
40		EH 2P Connector Ass'y	1	L27		FT2.5x20 + Pan	
41		E-4F Erase Head	1	L28		Washer 1.6x4x0.25	
42	0C08768A	E.H. Hold Plate	1	L29		Washer 1.7x6x0.25	
43		E.H. Hold Plate Tapering Spring		L30		M2x3.2 + Truss	
44		E.H. Hold Plate Spring	1	L31		Washer 2x5x0.25	
45		Head Base Hold Plate	1	L32		Washer 1.8x3.8x0.5	
46		Steel Ball 3mm	1	L33		Washer 2.1mm	
47		Tape Guide Plate	1	L34		S. Thrust Spring Washer	
48		Head Base Ass'y	1	L35		Washer 1.8x3.2x0.5	
49		Steel Ball 2mm	3	L36		Plate Washer L	
50		Take-up Reel Hub Ass'y	1	L37		Plate Washer R	
51	0C80613A	Take-up Reel Hub Spring	1	L38		Washer 2.7x5x0.5	
52	CA80368A	Take-up Pressure Roller Arm Ass'y	1	L39		Nut Hex. M2.6	
53		Take-up Pressure Roller Arm Spring	1	L40	0E00694A		
54		Switch Hold Plate	2	L41		Capstan Washer S Capstan Washer T	
55		Switch Plate	2	L42	UU02/1/A	Capstati washer i	
56		Switch Collar A	1				
57		Leaf Switch	2				
58		Switch Collar B					
59		Record Protector Lever	1				
60		Cassette Hold Spring	1				
61		Mechanism Chassis Ass'y	1				
62		Shut-off P.C.B. Ass'y	1				
63		Brake Ass'y	1				
64		Brake Spring B	1				
65		Brake Arm Collar	1				
66	0C80629A		1				
67		Reel Motor Holder	1				
68		Reel Motor Ass'y	1				
69	0C83380A	Idle Gear	1				
70	0C82701A	Supply Capstan Flange	1				
71	0C82700A	Take-up Capstan Flange	1				
72		Hold Spring	2				
73	UC 6 3 6 0 0 V	Supply Flywheel	1				

3.4. Mechanism Ass'y (B02)

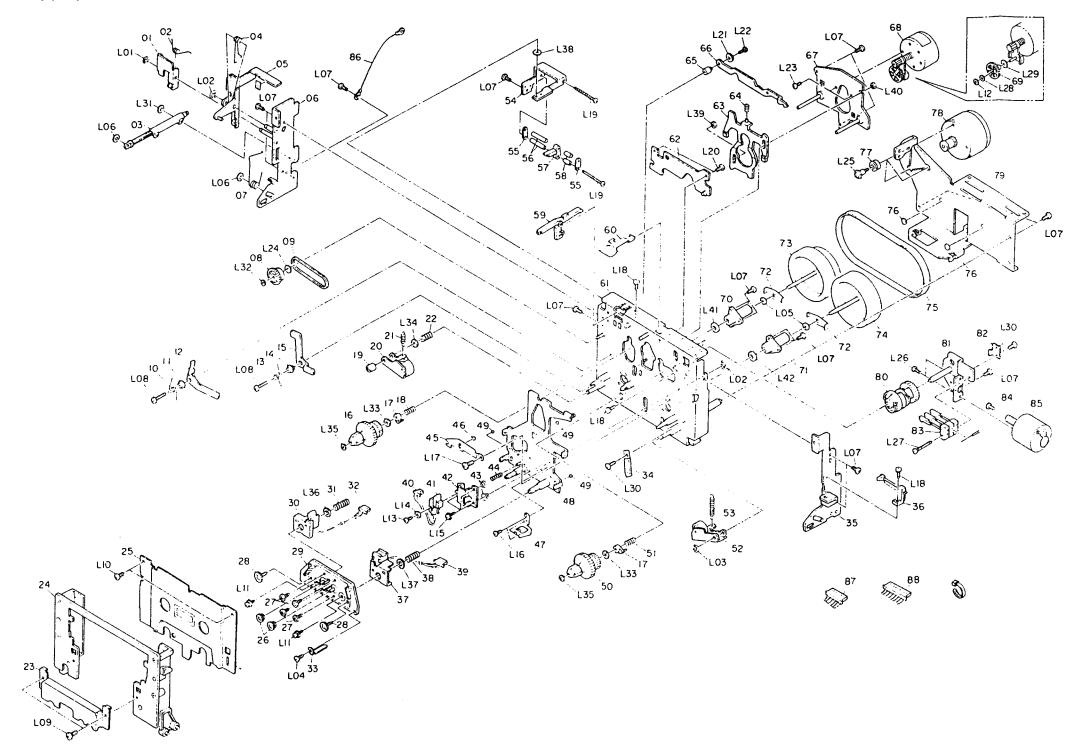


Fig. 3.4

4. MOUNTING DIAGRAMS AND PARTS LIST

4.1. Bias Volume P.C.B. Ass'y

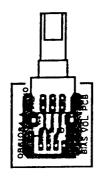


Fig. 4.1

4.2. Input Volume P.C.B. Ass'y

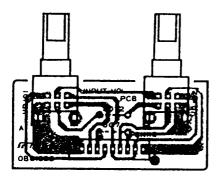


Fig. 4.2

4.3. Timer Switch P.C.B. Ass'y

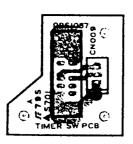


Fig. 4.3

4.4. Front P.C.B. Ass'y

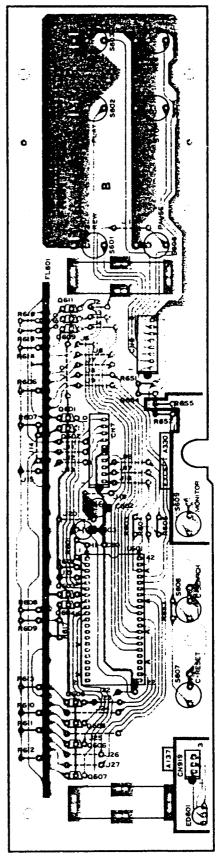


Fig. 4.4

4.5. Power Supply & Logic P.C.B. Ass'y

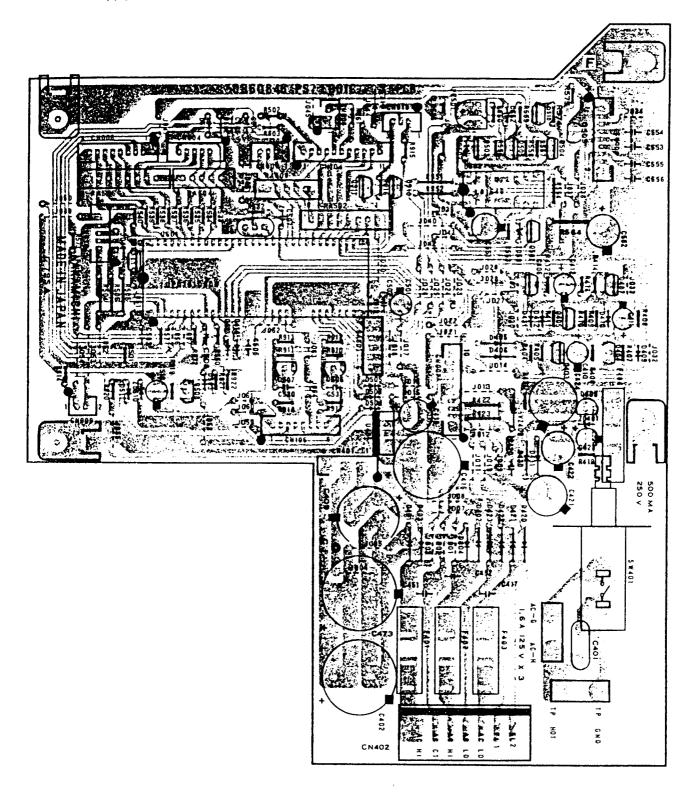


Fig. 4.5

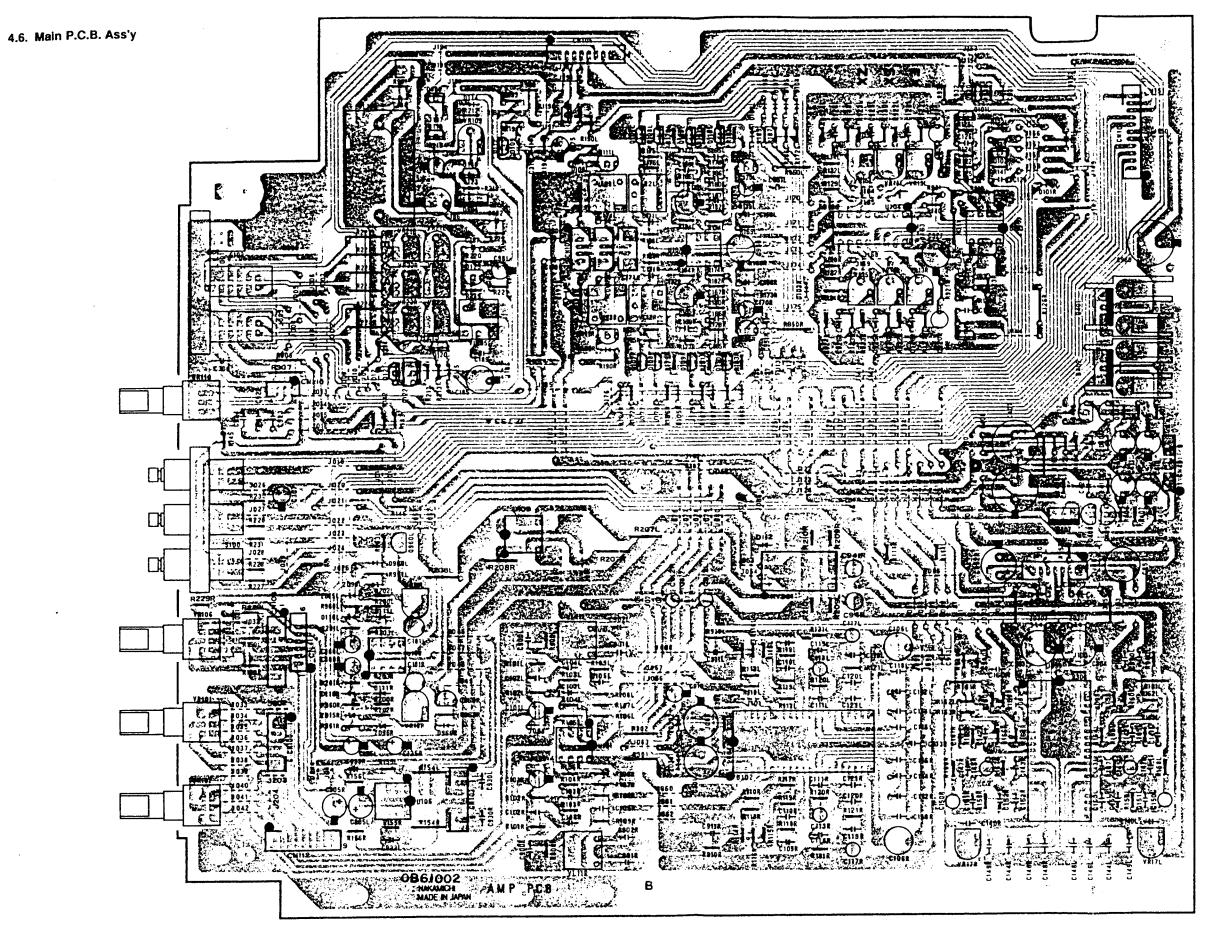


Fig. 4.6

NOTES: 1. Abbreviations

TR – Transistor, SID – Silicon Diode, ZD – Zener Diode, Varicap – Variable Capacitance Diode RK – Carbon Resistor, RM – Metal Film Resistor, RF – Fail Safe Type Resistor, RC – Cement Resistor

CE – Electrolytic Capacitor, CML – Mylar Capacitor, CC – Ceramic Capacitor, CPP – PP Capacitor, CMM – Metalized Mylar Capacitor, CSP – Polystyrene Capacitor, C – Mica Capacitor,

CT - Tantalum Capacitor

2. Description of capacitor: $10 \ 16V = 10\mu \ 16V$

4.1. Bias	Volume P.C.	B. Ass'y	Schematic			Schematic	;
Schematic	;		Ref. No.	Part No.	Description	Ref. No.	Part No. Description
Ref. No.	Part No.	Description	R655	0B09693A	RK 4.7K 1/6W J	C402	0840801A CE 6800 25V
	- DA0000CA		C601	0B41681A	CC 100P 50V J	C409	0B40363A CE 2200 25V
	BAU8836A	Blas Volume P.C.B.	C602	0B40980A	CE 100 6.3V	C410	0B40630A CE 22 10V (LN)
		Ass'y	C603	0B40173A		C411,412	
	00010044	Sina Valuma D.O.O.	S601,602	0B70214A	Tact Switch	C416	0B40362A CE 6800 16V
VR110	0B61084A		S603,604	0870214A		C417	0B41298A CML 0.1 50V J
	0B30159A		S605,606		Tact Switch	C419	0B40067A CE 470 10V
CN110	0B85202A	4P Connector Ass'y	S607,608		Tact Switch	C420	0B41298A CML 0.1 50V J
			S609	0B70214A	Tact Switch	C421	0B40798A CE 330 35V
4.2 Input	Volume P.C.	D. Annie	CN7	0B85205A	10P H-Connector	C422	0B40120A CE 100 50V
4.2. Input	volume P.C.	B. ASS y	_		Ass'y	C423	0B40100A CE 10 35V
Schematic			CN8	0B85206A	8P H-Connector	C424	0B40802A CE 1000 35V
Ref. No.	Part No.	Description			Ass'y	C451,452	0B41298A CML 0.150VJ
		Input Volume P.C.B.	FL601	0B90461A	·	C473	0B40801A CE6800 25V
	DA00037A	•			FIP13BW7Y	S401	0B71012A Power Switch 1P
		Ass'y		0J07086A	FL Cushion		TV-4
	0B61086A	Input Volume B.C.B		0J06238A	FL Stopper	CN401	0B81463A 6PT-Post
/R101	0B30156A	Input Volume P.C.B. VR 100KMN C.C				CN402	0B81574A 7PT-Post
VR102	0B30157A		4.5 Daws	- C			0B08349B Fuse Clip (8)
2N112		VR 100KAx2 9P Connector Ass'y	4.5. Powe	r Supply & Lo	ogic P.C.B. Ass'y		0J06668A Earth Lug for P.C.B
214112	0003203A	ar Connector Ass y	Schematic				(4)
			Ref. No.	Part No.	Description		0B84275A Wrapping Terminal
12 Times	Swhah D.C.	1 Annie					1P(2)
.s. Timer	Switch P.C.E	o. Ass y		BA08853A			1-7
Schematic					Logic P.C.B. Ass'y		- Motor Driver -
Ref. No.	Part No.	Description			(Except JPN)		
	24000444			BA08851A	Power Supply &	U502	0B11368A IC LB1649
	BA08841A	Timer Switch P.C.B.			Logic P.C.B. Ass'y	Q502	0B10062A TR DTC144ES
		Ass'y			(JPN)	Q503	0B10029A TR 2SA933S (S)
						Q504	0B10062A TR DTC144ES
670 4		Timer Switch P.C.B.		- Power Su	ipply	Q505	0B10033A TR 2SC1740S (S)
\$701	0B70175A					Q509	0B06066A TR 2SD471
CN009	0883936A	3P H-Connector Ass'y	U401	0B11753A		Q510	0B10368A TR DTC144TS
			Q403,404	0B10033A	TR 2SC1740S (S)	ZD501	0B12153A ZD 6_2V JS B2
			Q405	0B10033A	TR 2SC1740S (S)	ZD502	0B12288A ZD 5_1V MTZ5.1B
4.4. Front	P.C.B. Ass'y		Q406	0B10058A	TR DTA114ES	D413,414	0B06398A SiD 1SS176
Schematic			Q407	0B10033A	TR 2SC1740S (S)	D503.504	0B06398A SiD 15S176
Ref. No.	Part No.	Description	Q409	0B10015A	TR 2SA1020	D505,506	0B06398A SiD 1SS176
	-		ZD401	0812708A	ZD 24V MA4240N-H	VR501	0B32192A Seni VR 5K
	BA08855A	Front P.C.B. Ass'y	ZD402	0B12707A	ZD 4.7V MA4047N	R551,552	0801857Å RK 1K 1/4W J
			D401,402	0B12365A	SiD 1SR35-100A	R553,554	
		Front P.C.B.	D403,404	0812365A	SiD 1SR35-100A	R555	0B09677A RK 1K 1/6W J 0B24361A Fusi Resistor 27 1W
V601		IC MSC7112-01	D405,406	0B12365A	SiD 1SR35-100A	R556	0B09701A RK 10K 1/6WJ
2601,602		TR 2SC1740S (S)	D409,410	0B06398A	SiD 1SS176	R557	0B09681A RK 1.5K 1/6WJ
0603,604		TR 2SC1740S (S)	D411,412	0B06398A	SiD 1SS176	R558	0B09695A RK 5.6K 1/6WJ
605,606		TR 2SC1740S (S)	D420,421	0B12365A	SiD 1SR35-100A	R559	
0607,608	0B10030A	TR 2SC1740S (S)	D422,423	0B12365A	SiD 1SR35-100A	R560	
0609,610	0B10030A	TR 2SC1740S (S)	D430,431	0B12365A	SiD 1SR35-100A	R561	
9611	0B10030A	TR 2SC1740S (S)	R404	0B09709A	RK 22K 1/6W J	R564	0809669A RK 470 1/6W J
601	0B09713A	RK 33K 1/6W J	R405	0B09703A	RK 12K 1/6W J		0B09217A RF 5.6 1/4WJ
602	0809701A	RK 10K 1/6W J	R406	0B09701A		R574 R575	0B09684A RK 2K 1/6W J
603,604	0B09677A	RK 1K 1/6W J	R407,408	0B09693A	RK 4.7K 1/6W J		0B09725A RK 1)0K 1/6W J
1605		RK 1K 1/6W J	R409	0B09719A	RK 56K 1/6W J	C551	0B40078A CE 10-0 16V
606,607		RK 47K 1/6W J	R410	0B09713A		C552	0B41286A CML0.01 50V J
608.60g	_	RK 47K 1/6W J	R411,412	0809693A		C553,554	0B41298A CML0. 1 50V J
1610.611		RK 47K 1/6W J	R413	0B09719A		C555,556	0B41298A CML0. 1 50V J
612.613		RK 47K 1/6W J	R414			C562	0B40079A CE 22/0 16V
614,615		RK 47K 1/6W J	R419	0B09685A		CN005	0B84084A 9P TPost
616						CN006	0B84278A 2P TPost
617		RK 47K 1/6W J	R421	0B09701A			· •
651		RK 10 1/6W J	R422,423		RK 100 1/6W J		- MPU
652		RK 10K 1/6W J	C401	0B41825A			-
653		RK 4.7K 1/6W J			(Except JPN)	U501	0B11884A IC PD 75106CW
1654		RK 15K 1/6W J			CC 4700P AC250		0B10068A TR DT C114ES
-04	0B09701A	RK 10K 1/6W J		(JPN)		0B10029A TR 2S A933S (S)
							0010059V 111 (2 V3000 (0)

Schematic Ref. No.	Part No.	Description	4.6. Main F	P.C.B. Ass'y		Schematic Ref. No.	Part No.	Description
Q508	0B10029A	TR 2SA933S (S)	Schematic			Q112	0B10029A	TR 2SA933S (S)
ZD510	0B12695A	, ,	Ref. No.	Part No.	Description	D103L,R	0B06398A	
D501,502	0B06398A	SiD 1SS176		BA08849A	Main P.C.B. Ass'y	D104L,R	0B06398A	
D511	0B06398A	SiD 1SS176				D105L,R	0B06398A	SiD 1SS176
X501	0B92045A	Crystal 4.0MHZ		- Input Am	p . –	D106L,R D107L,R	0B06398A 0B06398A	
RA501 RA502	0B21101A	R Network 10Kx3 R Network 10Kx6	U101	0B06146A	IC NJM4558DD	D107L,R	0B06398A	
RA503		R Network 10Kx3	VL11L,R	0851373A	L-C Block (MPX)	D109		SiD 1SS176
RA504		R Network 10Kx3	R101L,R	0B09749A	RK 1M 1/6W J	VL12L,R		Coil 15.8mH
RA506	0B21102A		R102L,R	0809717A	RK 47K 1/6W J	VL13L,R		Trap Coil 1.05mH
R501	0B09689A	RK 3.3K 1/6W J	R103L.R	0B09717A	RK 47K 1/6W J	R169L,R	0B09711A	
R502,503	0809701A	RK 10K 1/6W J	R104L.R	0B09709A	RK 22K 1/6W J	R170 R171	0B09701A	RK 10K 1/6W J RK 100K 1/6W J
R504,505	0809701A 0809701A	RK 10K 1/6W J RK 10K 1/6W J	R105L,R R106L,R	0B09677A 0B09677A	RK 1K 1/6W J RK 1K 1/6W J	R171 R172L,R		RK 22K 1/6W J
R506 R532,533	0B09677A		R107L.R	0825236A	RM 2.67K 1/4W F	R173L,R		RK 220K 1/6W J
R534,535	0B09677A	RK 1K 1/6W J	R108L,R	0B25236A	RM 2.67K 1/4W F	R174L,R	0B25195A	RM 1K 1/4W F
R536,537	0B09677A	RK 1K 1/6W J	R109L,R	0B25267A	RM 5.62K 1/4W F	R175L,R	0B09685A	RK 2.2K 1/6W J
R538,539	0B09677A	RK 1K 1/6W J	R900L.R	0B09725A	RK 100K 1/6W J	R176L,R	0B09677A	RK 1K 1/6W J
R540	0B09677A	RK 1K 1/6W J	C101L,R	0B40778A	CE 10 25V	R177L,R	0B25252A	RM 3.92K 1/4W F
R550	0B09701A	RK 10K 1/6W J	C102L,R	0B41976A	CC 33P 50V J	R178L,R		RK 5.1K 1/6W J
R571	0B09677A	RK 1K 1/6W J	C103L.R	0B41978A	CC 68P 50V J CC 33P 50V J	R179L,R R180L,R	0B09741A 0B09693A	RK 470K 1/6W J RK 4.7K 1/6W J
R572,573 R910,911	0B09701A 0B09709A	RK 10K 1/6W J RK 22K 1/6W J	C104L,R C105L,R	0B41976A 0B01802A	CC 33P 50V J CML 2200P 50V J	R181L,R	0B09741A	
R912,913	0B09705A	RK 100K 1/6W J	C900L.R	0B09989A	CC 120P 50V J	R182L,R		RK 5.6K 1/6W J
R914	0B09701A	RK 10K 1/6W J	C901L.R	0B09189A	CML 2700P 50V J	R183L,R	0B09741A	
R917,918	0B09725A		C902L.R	0B01804A		R184L,R	0B09733A	RK 220K 1/6W J
R919	0B09721A	RK 68K 1/6W J	CN112	UB84084A	9P T-Post	R185L,R		RM 59.0K 1/4W F
R920	0B09669A			_		R186L,R	0B09709A	
R921	0B09725A	RK 100K 1/6W J		- Encoder	-	R187L.R	0B09709A	
R922	0809701A		11100	0011262A	IC CX20188	R188L,R R189L,R	0B22644A 0B09709A	
C501 C502	0B40077A	CML 0.1 50V J	U102 ZD301,302	0B11363A 0B12695A	ZD 10V MA4100(N)	R190L,R	0B09695A	
C503		CML 0.22 50V J	R110L,R	0825267A	RM 5.62K 1/4W F	R191	0B09717A	
C504,505		CML 0.01 50V J	R113L,R	0825195A	RM 1K 1/4W F	R192	0B09701A	
C506.507		CML 1000P 50V J	R114L,R	0B25304A	RM 13.7K 1/4W F	R193	0B09721A	
C508	0B41944A		R115L.R	0B25251A	RM 3.83K 1/4W F	R194	0B09701A	
C510	0B40756A		R116L,R	0B25244A	RM 3.24K 1/4W F	R195L.R	0809629A	RK 10 1/6W J RK 10K 1/6W J
C530,531 CN004	0841290A 0881462A	CML 0.022 50V J	R117L,R R118L,R	0B09749A 0B25171A	RK 1M 1/6W J RM 562 1/4W F	R950L.R C165L.R		CPP 2200P 100V G
CN004 CN007		10P T-Post	R119L,R	0B25171A	RM 22.1K 1/4W F	C166L,R		CML 2200P 50V J
CN008	0B84296A		R120L.R	0B09698A	RK 7.5K 1/6W J	C167L,R		CML 0.022 50V J
CN009	0B84281A		R121L,R	0B09673A	RK 680 1/6W J	C168L,R	0B09045A	CML 0.027 50V J
CN104	0B84305A	11P T-Post	R131L,R	0B09700A	RK 9.1K 1/6W J	C169L,R		CML 0.068 50V J
CN105	0B81465A		R301,302	0B09508A	RF 56 1/4W J	C170L,R	0B40557A	
CN516	0B84286A	5P T-Post	R303	0B25398A	RM 130K 1/4W F	C171L.R		CML 3300P 50V J
	Macallan	20016	R910L.R	0B25099A 0B40474A	RM 100 1/4W F CE 47 16V (BP)	C172L,R C173L,R	0B40559A	CE 47 16V CPP 330P 100V J
	- Miscellar	ieous –	C106L,R C109L,R		CPP 2200P 100V G	C174L.R	0B09322A	CPP 2200P 100V J
	0860846F	Power Supply &	C110L.R		CPP 2200P 100V G	C175	0B40778A	
	0000040	Logic P.C.B.	C111L,R		CPP 3900P 100V G	C310		CML 1000P 50V J
		209.0	C112L,R		CML 0.47 50V J	C950	0B40798A	CE 330 35V
			C113L.R	0B40817A	CE 1 50V (BP)	C951L,R	0B05550A	CML 1000P 50V J
			C114L,R		CML 0.15 50V J	CN101	0B81461A	4P T-Post
			C115L,R		CML 0.015 50V J		Dec 57 (1
			C116L,R		CML 0.22 50V J		- Rec. Eq. /	/mp
			C117L,R C118L,R		CE 1 50V (BP) CML 0.068 50V J	U103	0B06146A	C NJM4558DD
			C119L.R		CML 0.056 50V J	U104	0B11027A	
			C120L,R		CPP 5600P 100V G	Q101L,R	0B10033A	
			C121L,R	0B05681A	CML 0.01 50V J	Q102	0B10029A	
			C301,302		CE 470 16V	Q930	0B10029A	
			C910		CE 10 25V	D101L,R	0B06398A	
			C911L.R		CC 120P 50V J CC 120P 50V J	VR13L,R VR14L,R		Senrai VR 10K Senrai VR 10K
			C913L,R	0009903A	CC 120F 30V 3	VR15L,R		Serrai VR 20K
				- Rec. Amp	·. -	R111L,R	0B09733A	
						R122L,R	0B09705A	RK 15K 1/6W J
			U107	0806387A		R123L,R	0B09703A	
			Q105	0B10053A		R124L,R	0B25276A	
			Q106L,R	0B06299A		R125L,R R126L,R	0B09749A 0B09701A	
			Q107L,R Q108L,R	0B10033A 0B10033A		R127L,R	0B09701A	
			Q100L.R	0B10033A		R129L,R	0B09693A	
			Q110L,R	0B10033A		R130L,R	0B09697A	RK 6.8K 1/6W J
			Q111L,R	0B06299A	• •	R132L,R	0B09689A	

Schematic			Schematic	1		Schematic		
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description	Ref. No.	Part No	Description
R133L,R	0B09701A	RK 10K 1/6W J	C930L.R	0B01804A	CML 3900P 50V J	C189	0B41261	
R134L,R	0B09701A	RK 10K 1/6W J	C933L,R	0B41978A		C192	0B40778	
R139	0B09717A	RK 47K 1/6W J	CN103		5P T-Post	C952L,R	0B40608	
R140,141	0B09725A	RK 100K 1/6W J				C981	0B40115	
R142,143	0B09733A	RK 220K 1/6W J		- Power S	upply –	C982		A CPP 470P 100V J
R144	0B09733A	RK 220K 1/6W J				CN102		A 2P T-Post
R145,146	0B09693A	RK 4.7K 1/6W J	Q401,402	0B06452A	TR 2SD1406			
R310	0B09693A	RK 4.7K 1/6W J	Q403,404	0B06142A	TR 2SC2240		- Blas A	dj. –
R311	0B09701A	RK 10K 1/6W J	Q405,406	0B10050A	TR 2SA970			•
R312	0B09693A	RK 4.7K 1/6W J	Q407	0B06451A	TR 2SB1015	VR21L,R	0B32195	A Semi VR 50K
R921L,R	0B09705A	RK 15K 1/6W J	ZD401	0B12705A	ZD 5.1V	VR22L,R	0B32194	A Semi VR 20K
R922L,R	0B09694A	RK 5.1K 1/6W J			MA4051N-M	VR23L,R	0B32193.	A Semi VR 10K
R923L,R	0B09701A	RK 10K 1/6W J	R401,402	0809685A	RK 2.2K 1/6W J	R222L,R	0B09705	A RK 15K 1/6W J
R924L,R	0B09701A	RK 10K 1/6W J	R403	080 9 677A	RK 1K 1/6W J	R223L,R	0B09697	A RK 6.8K 1/6W J
R930,931	0B09725A	RK 100K 1/6W J	R404	0B25667A	RM 3.9K 1/4W F	R224L,R	0B09653	A RK 100 1/6W J
R932	0B09717A	RK 47K 1/6W J	R405	0B25669A	RM 4.7K 1/4W F			
C124	0B41971A	CC 0.1 50V Z	R406,407	0B09685A	RK 2.2K 1/6W J		- Meter A	mp. –
C125L,R	0B09993A	CML 820P 50V J	R408	0809677A	RK 1K 1/6W J			
C126L,R	0B05681A	CML 0.01 50V J	R409	0B22570A	RM 12K 1/4W F	U108	0B06124/	
C128L.R	0B09045A	CML 0.027 50V J	R410	0825308A	RM 15K 1/4W F	Q960L,R	0B06299	A TR 2SC2878
C920L,R	0B40474A	CE 47 16V (BP)	R411	0B09669A	RK 470 1/6W J	ZD15L.R	0B12714A	A ZD 3.3V
C922,923	0B41971A		R962	0B09682A	RK 1.6K 1/6W J			RD3.3ESB1
C924	0B41971A		C403.404	0B40800A	CE 100 25V	ZD96L,R	0B12289	
C925L,R	0B09045A	CML 0.027 50V J	C405	0B41971A	CC 0.1 50V Z	D110L,R	0B06398	
C926L,R	0B05659A		C407	0B40705A	CE 3300 16V	D111L,R	0B06398	
C927	0B40799A		C408	0841971A	CC 0.1 50V Z	D960L,R	0B06398A	
C931,932	0B41971A	CC 0.1 50V Z	C410,411	0B40800A	CE 100 25V	VR18L,R	0B32192A	
			C412	0B40361A	CE 2200 16V	R200L.R	0B09749A	
	- Decoder -	-	C414	0B41971A	CC 0.1 50V Z	R201L,R	0B09741A	
11400	00440004	10 0400100	C425	0841971A	CC 0.1 50V Z	R202L,R	0B09677A	
U106		IC CX20188		0B90448A	Heat Sink (2)	R203L.R	0B09677A	
ZD303,304	0B12695A	ZD 10V MA4100(N)		T	•	R960L,R	0B09696A	
VR17L,R	0B32192A	Semi VR 5K		- Tape/Sou	rce Switch -	R961L,R	0B09682A	
R158L,R	0B09673A	RK 680 1/6W J	11100	00001044	10 N.B.44550D	R963L,R	0B09701A	
R159L.R		RK 100K 1/6W J	U109	0B06124A		C180L.R	0B40257A	
R160L,R		RM 1K 1/4W F	D112	0B06398A	SiD 1SS176	C181L.R	0B40817A	
R161L,R		RM 2.2K 1/4W F	R207L.R	0809725A	RK 100K 1/6W J	C960	0B40608A	CE 470 16V
R162L,R		RM 3.24K 1/4W F	R208L.R	0B09677A	RK 1K 1/6W J			
R163L,R		RM 3.83K 1/4W F	R209L.R	0809701A	RK 10K 1/6W J		Push Sv	vitch –
R164L,R		RK 1M 1/6W J	R210L.R	0809701A	RK 10K 1/6W J	5000		
R165L.R		RM 562 1/4W F	C912L,R		CE 10 25V (BP)	R226	0B09701A	
R166L,R		RM 22.1K 1/4W F	C941L.R		CE 10 25V (BP)	R227	0B09685A	
R167L,R		RK 7.5K 1/6W J	RL301	0B90279A	DS Relay	R228	0B09709A	RK 22K 1/6W J
R168L,R		RK 9.1K 1/6W J				R230,231	0B09701A	RK 10K 1/6W J
R304,305		RF 56 1/4W J		Blas Osc.	-	R307	0B09711A	RK 27K 1/6W J
R306		RM 130K 1/4W F				R308,309	0B09725A	RK 100K 1/6W J
R940L,R		RM 100 1/4W F	Q119		TR DTA124ES	C190L,R	0B09270A	CPP 470P 100V J
C140L.R		CC 120P 50V J	Q120	0B10070A		C307	0B40559A	CE 47 16V
C141L,R		CPP 2200P 100V G	Q121	0B10033A		C308	0B41971A	CC 0.150V Z
C142L,R		CPP 2200P 100V G	Q122	0B06069A		S100	0B70177A	Push Switch
C143L,R		CPP 3900P 100V G	Q123	0B10033A	, ,			MPX-DOLBY
C144L,R		CML 0.47 50V J	Q124	0B06451A		S103	0B70176A	Push Switch TAPE
C145L,R		CE 1 50V (BP)	Q125	0B10222A				
C146L,R		CML 0.15 50V J	Q980	0B10053A			- Miscellai	neous
C147L,R		CML 0.015 50V J	ZD305,306	0B12695A				
C148L.R		CML 0.22 50V J	D114,115		SiD 1SS176		0B61002B	
C149L,R		CML 0.068 50V J	VL104	0B51047A		CN100	0B83926A	6P H-Connector
C150L.R		CE 1 50V (BP)	VL105	0B51372A				Ass'y 330
C151L,R		CML 0.056 50V J	TH215		Thermistor 3.3K	CN104	0B83932A	11P H-Connector
C152L.R		CPP 5600P 100V G	VR109	0B32192A				Ass'y 250
C153L,R		CML 0.01 50V J	R212.213	0B09665A		CN105	0B83931B	
C160L,R		CPP 100P 100V J	R214	0B09701A				Ass'y 150
C303,304		CE 470 16V	R216	0B09703A		CN107	0B83928A	_
C940L,R	0B09989A	CC 120P 50V J	R217	0B09653A				Ass'y 41 0
	110		R218	0B09701A		CN108	0B83925A	_
	_ Headphone	e Amp	R219	0B09725A				Ass'y 360
U105	004-00-	10 1480:5	R220	0B09701A		CN401	0B83930B	6P H-Connector
R150L,R	0B11365A		R221	0B09617A				Ass'y 270
RIEAL -	0B25661A		R225	0B09701A				
R154L,R R155L,R	0B09049A		R952L,R	0B09648A				
R156L,R	0B09717A		R980	0B09717A				
R229L,R	0B09717A		R981	0B09693A				
C135L,R	0B09717A		C185,186	0B40800A				
C305L.R	0B40778A		C187		CML 820P 50V J			
-55C.H	0B40800A	CE 100 25V	C188	UB41255A (CPP 0.018 100V J			

